

FINISHING

SURFACE FINISHING

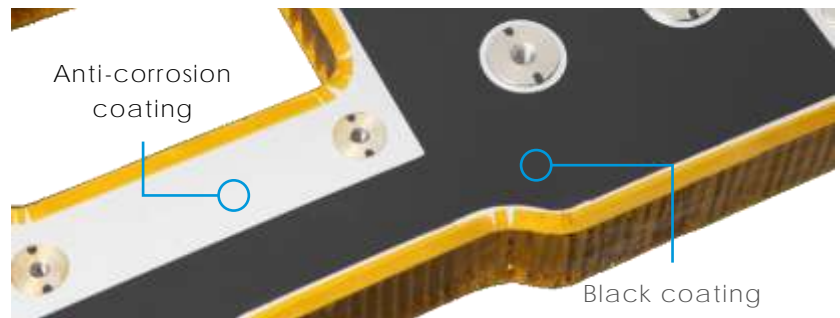
To help regulate heat transfer, surfaces can be painted with thermal coating to reach emissivity and absorptivity requirements.

Besides, aluminum surfaces are protected against corrosion. External surfaces are coated with SurTec 650 (in replacement to Alodine 1200) and internal skin surfaces currently with BR127.

APCO Technologies is able to define coating requirements.

Treatments Used

<i>Thermal Coating</i>	<i>Anti-corrosion</i>
MAP PUK MAP PU1 MAP PCBE	Alodine 1200 SurTec 650



MULTI-LAYER INSULATION

MLI (Multi-Layer Insulation) protects the S/C from extreme temperatures when exposed to the sun, deep space or even from its own propulsion system.

APCO Technologies is able to deliver structures equipped with MLI including stand-offs and electrical grounding.



MIRRORS AND REFLECTORS

Mirrors simultaneously reflects solar radiation and rejects internal heat. SSM (Secondary Surface Mirror) are made of flexible plastic sheets whereas OSR (Optical Solar Reflector) are made of glass and retain their performances longer.

APCO Technologies can deliver panels equipped with both OSR and SSM.



Above : SSM on Sentinel-3 SLSTR RA

On the left : OSRs on Sentinel-3 OLCI